many other mammals." In *&7iidna*$_t$ too, but not in *Ornitho-rhy fichus,* the hemispheres are well convoluted, though the arrange-ment of t'hese convolutions cannot be brought into line with what is known concerning the convolutions upon the hemispheres of other mammals. It had been stated that in. these animals, at least in *JSeJiidna,* there were only two optic lobes, as in lower vertebrates, instead of the mammalian four. The late Sir W. H. Flower set this matter at rest,[1] and showed that *J&ch-idna* was in this respect typically mammalian. The absence of the corpus

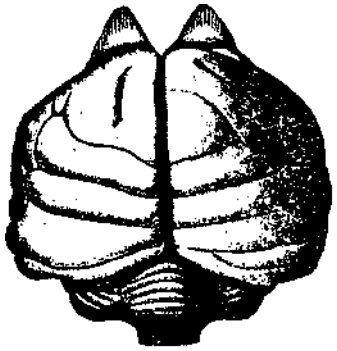

FIG. 53.—Brain of *Echidna aculeata,* dorsal view. (Nat. size.) (From Parker and Haswell's *Zoology.*)

callos,um is one of the principal features separating the Monotremes from other mammals,

The Monotremata are represented to-day by two

types, *Ornitho-rliyticfaiis* and *ItJeJiidnct,,* which are no doubt worthy of being placed in separate families, Fossil remains of the group (apart from the problematical Multitu berculata) are only known from Pleistocene times in Australia, and consist of the bones of a large species of *jEcfoidna,* and some fragments of *Ornithorhynchus,* indicating a smaller animal than tho livinS riatypua

Fam. 1. Echidnidae. — This family contains two genera, of which *JEchidna* is the older and much the better known. The skin is abundantly covered with spines, with which are mingled hairs. The snout is tapering,

the tail rudimentary, and the fingers and toes five in number.

The spur and gland upon the calcaneum are smaller than in *Ornithorhynchus.* The claws are very strong, serving to tear
open the ants* nests, upon the inhabitants of which the Echidna
feeds, licking them, up with a long extensile tongue like that of *Myrmecophaga.* In relation, to this habit the salivary glands are enormously developed, arid indeed the animal lias been con-
founded with *MyrmecopJiaga*^ as the vernacular name " Australian
Anteater " exemplifies,

[1] *JProc. Zool. jSoc.* 1864, p. 18.

[a] *MyrmecQpJiaga, aculca+ta,* waa the »amo given, bv Shaw.